



GREEN DEAL – AREA 11: INTERNATIONAL COOPERATION WITH AFRICA

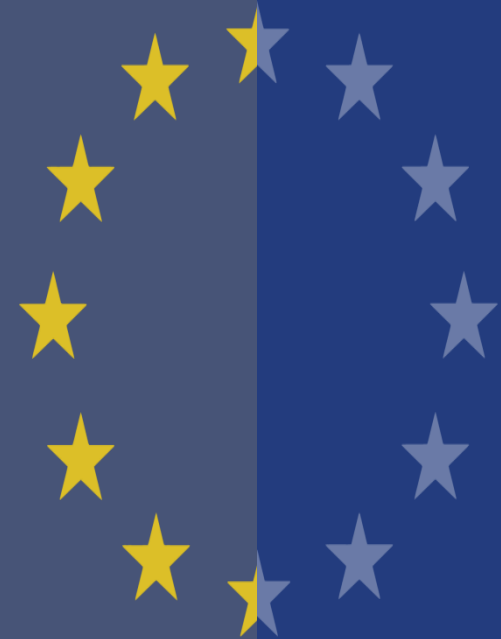
Rachel (Heli) Loutaty

National Contact Point (NCP) – NMBP
Nanotechnologies, Advanced Materials, Biotechnology,
Advanced Manufacturing and Processing

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Agenda

- ISERD and Horizon2020
- The European Green Deal
- Accelerating the Green Transition and Energy Access Partnership with Africa
- Call Draft Review
- Funded Project Example
- How to Find Partners and ISERD Services
- Q&A



ISERD – Israel Europe R&I Directorate

- An **interface** between the Israeli government and the EU
- **Encouraging** Israeli entities to participate
- **Representing** Israel in the programme committees of the EC
- **National Contact Point (NCP)** for the different themes
- **Information dissemination**
- **Assistance** throughout projects' submission and management

ISERD aims at maximizing the benefits of
Israel's participation in the Framework
Programmes (FP)

HORIZON 2020

European Framework Programme

- EU's main funding instrument for R&D (since 1984)
- Goals:
 - Strengthen the scientific & technological base of European Industry
 - Support EU policies and address major Societal Challenge
 - Create a “European Research Area” (ERA)
- Covering all major scientific and technological disciplines
- Targeting the major European industrial sectors



Funding Members of H2020



EU MEMBER STATES (28)



ASSOCIATED COUNTRIES (16)



Meeting the Minimum Requirement

Coordinator

LINGACOM LTD

Address
10 Hanechoshet Street Ramat Hachayal
69710 Tel Aviv
Israel

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

[Contact the organisation](#)

Participants (8)

Sort alphabetically **Sort by EU Contribution**

- SOCIEDAD EUROPEA DE ANALISIS DIFERENCIAL DE MOVILIDAD SL** Spain
- ATOS SPAIN SA** Spain
- TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY** Israel
- BEN-GURION UNIVERSITY OF THE NEGEV** Israel
- MINISTERIE VAN FINANCIEN** Netherlands
- MINISTERIO DEL INTERIOR** Spain
- AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS** Spain
- MINISTRY OF PUBLIC SECURITY** Israel

Coordinator

Fair Dynamics Consulting s.r.l.

Address
Via Carlo Farini 5
20154 Milano
Italy

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

[Website](#) [Contact the organisation](#)

Participants (16)

Sort alphabetically **Sort by EU Contribution**

- ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS** Greece
- RISSC - CENTRO RICERCHE E STUDI SUSICUREZZA E CRIMINALITA ASSOCIAZIONE** Italy
- EXPERT SYSTEM SPA** Italy
- AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH** Austria
- FUNDACIO INSTITUT DE BIOENGINYERIA DE CATALUNYA** Spain
- ISTITUTO ITALIANO PER LA PRIVACY** Italy
- SYSTRAN SA** France
- STICHTING KATHOLIEKE UNIVERSITEIT BRABANT** Netherlands
- STICHTING DUTCH INSTITUTE FOR TECHNOLOGY, SAFETY & SECURITY** Netherlands
- VIAS INSTITUTE** Belgium
- PROVINCIAL POLICE HEADQUARTERS IN GDANSK** Poland

Coordinator

UNIVERSITAT POLITECNICA DE VALENCIA

Address
Camino De Vera Sn Edificio 3a
46022 Valencia
Spain

Activity type
Higher or Secondary Education Establishments

[Website](#) [Contact the organisation](#)

Participants (4)

Sort alphabetically **Sort by EU Contribution**

- LUMENSIA SENSORS SL** Spain
- INMUNOLOGIA Y GENETICA APLICADA SA** Spain
- SOCIETE DES PRODUITS NESTLE SA** Switzerland
- DANMARKS TEKNISKE UNIVERSITET** Denmark

Types of Action

Action	Funding*	Technology Readiness Level (TRL)	Main Characteristics
RIA – Research & Innovation Action	100% + 25%	Low TRL (4-6)	Basic and applied research, technology development and integration, testing and validation on small-scale prototype in laboratory or simulated environment
IA – Innovation Action	70% + 25%	High TRL (6-8)	Prototyping, testing, demonstrating, piloting, large-scale product validation and market replication
CSA - Coordination & Support Action	100% + 25%	-	Networking, coordination or support services, policy dialogues and mutual learning exercises and studies

* Non profit – always 100%

Technology Readiness Levels

- **TRL 1** – basic principles observed
- **TRL 2** – technology concept formulated
- **TRL 3** – experimental proof of concept
- **TRL 4** – technology validated in lab
- **TRL 5** – technology validated in relevant environment*
- **TRL 6** – technology demonstrated in relevant environment*
- **TRL 7** – system prototype demonstration in operational environment
- **TRL 8** – system complete and qualified
- **TRL 9** – actual system proven in operational environment**

* Industrially relevant environment in the case of key enabling technologies

** Competitive manufacturing in the case of key enabling technologies, or in space



Submission Timeline

Proposal Preparation
- Now

Proposals Evaluation
- by
06.2021

Grant Agreement Preparation (GAP) phase (~3 months)

Deadline – Proposal Submission – 01.2021

ESRs sent and winners announced

GA signed – projects start and become public knowledge – by 09.2021

~ 8 months

Israeli Results in H2020*

Submitted Participations		12,773
Successful Participations		1,761
Success by sector:	Industry	762
	Universities	864
	Others	135
Submitted Proposals		11,051
Successful Proposals		1,446
Success Rate		13%
Value of Israeli grants: 1.08 B€	Industry	363.2 M€
	Universities	697.2 M€
	Others	22.4 M€

*[H2020 Dashboard](#), 23.07.2020

Green Deal Mission

“The recovery plan turns the immense challenge we face into an opportunity, not only by supporting the recovery but also by investing in our future: the European Green Deal and digitalization will boost jobs and growth, the resilience of our societies and the health of our environment.”

- European Commission President Ursula von der Leyen

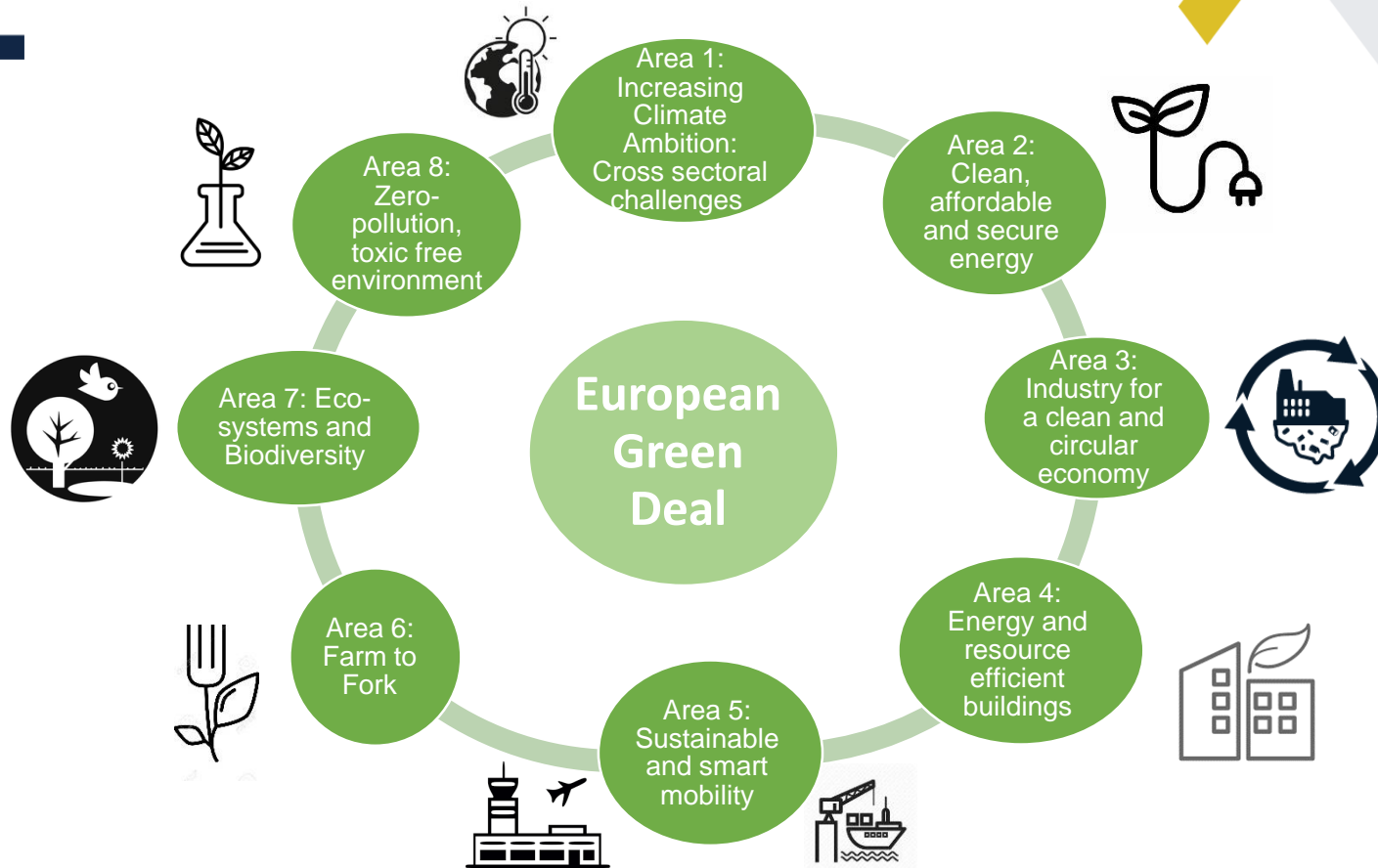
1 Billion Euro is pledged to ensuring this



Green Deal Goals

- Make the EU **climate neutral** by 2050
- Restore **biodiversity** and cut **pollution**
- **Invest** in environmentally-friendly technologies
- Support the **industry** in innovating
- Boost the **efficient use of resources**
- Move to a **clean, circular economy**
- Roll out cleaner, cheaper and healthier forms of **transport**
- **Decarbonise the energy sector**
- Ensure **buildings** are more energy efficient
- Work with international partners to improve **global environmental standards**

Green Deal Structure



Area 9: Strengthening our knowledge in support of the European Green Deal


Area 10: Empowering citizens for the transition towards a climate neutral, sustainable Europe

Area 11: International cooperation (focus on cooperation with Africa and the Mediterranean)

Disclaimer

The presentation of draft topics and the feedback provided shall **in under no circumstances bind the European Commission** in the final formulation of topics for the call.

The binding call text will be published following the formal decision by the European Commission on the [Funding and tender opportunities portal](#)



TOPIC: Accelerating the Green Transition and Energy Access Partnership with Africa

Africa-EU Partnership



TOWARDS A COMPREHENSIVE STRATEGY WITH AFRICA

#EUAfrica

March 2020

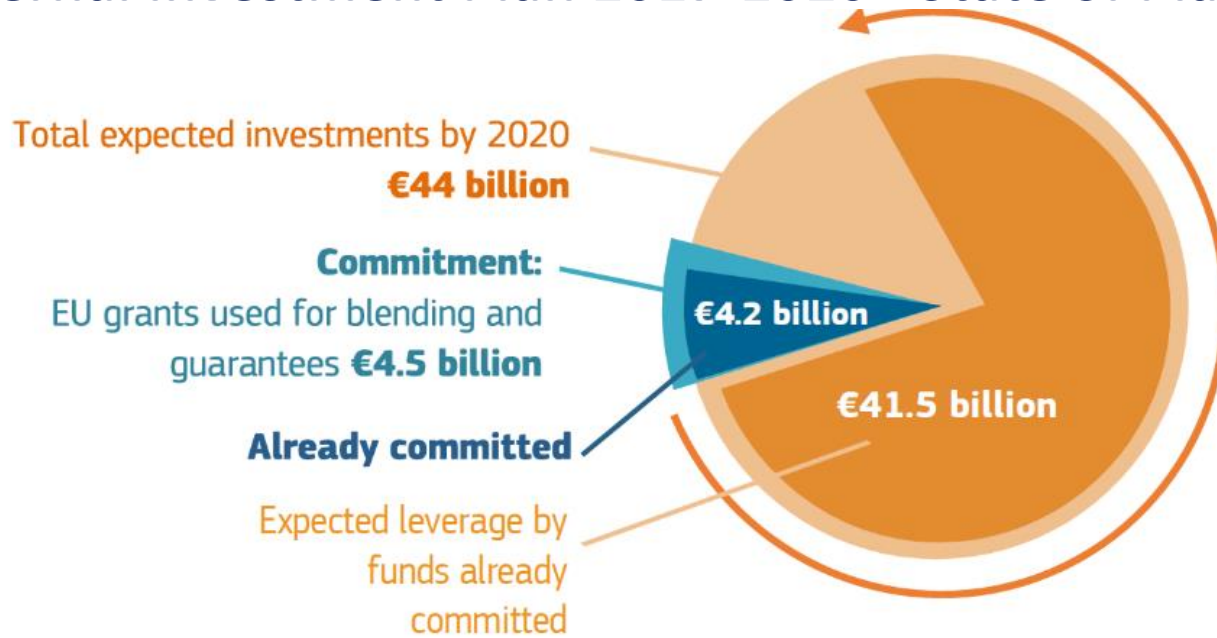


“Today's Strategy with Africa is the roadmap to move forward and bring our partnership to the next level. Africa is the European Union's natural partner and neighbour. Together we can build a more prosperous, more peaceful and more sustainable future for all.”

The European Union's contribution towards a Strategy with Africa proposes to build partnerships in five key areas to tackle together the challenges of the 21st century. It builds on an ongoing dialogue with the EU's African partners and will be taken forward in the next European Union-African Union Summit in Brussels in autumn 2020.

Africa-Europe Alliance

External Investment Plan 2017-2020 - State of Play

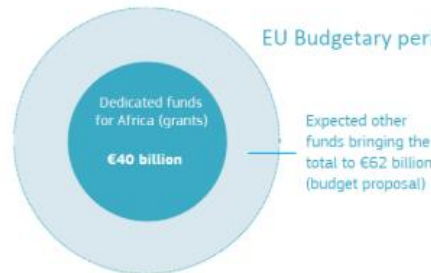


*EU financial input and expected investments

EU Budgetary period 2014-2020



EU Budgetary period 2021-2027 (Proposed)

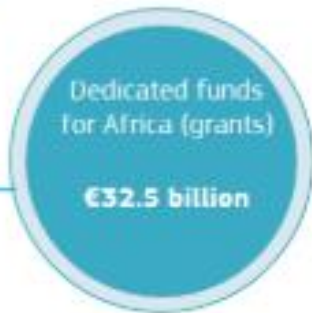


Africa-Europe Alliance

EU Budgetary 2014-2020 VS 2021-2027 (proposed)

period 2014-2020

Other funds bringing total to €42 billion



EU Budgetary period 2021-2027

Expected other funds bringing the total to €62 billion (budget proposal)



Communication on an Africa-Europe Sustainable Investments and Jobs Alliance

Africa-EU Partnership

What is the EU proposing?

The European Commission's and the European External Action Service's vision of the future EU-Africa partnership proposes to work together on **five key global trends**:

- **A Partnership for the Green Transition and Energy Access**
- A Partnership for Digital Transformation
- A Partnership for Sustainable Growth and Jobs
- A Partnership for Peace, Security and Governance
- A Partnership on Migration and Mobility

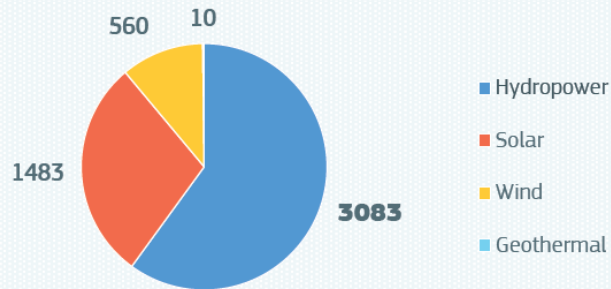
Africa-EU Partnership

What is the EU proposing?



A PARTNERSHIP FOR THE GREEN TRANSITION AND ENERGY ACCESS

EU supported renewable energy projects in Africa – By technology and generation capacity (Mw)



ACTION

- Maximise the benefits of the green transition and minimise threats to the environment in full compliance with the Paris Agreement.

Terms and Conditions

Funding Terms –

- IA – Innovation Action (**70% funding +25%**)
 - **40-million-euro** Budget
 - **5-10 million** euro expected for **each project**
-
- A **balanced consortium** between European and African partners will be considered an asset in the evaluation



SPECIFIC CHALLENGE

The Challenge



- Enormous **renewable energy potential**
- Renewable energy **solutions** will support Africa in achieving
 - sustainable development growth
 - economic transformation
- Africa to address the
 - urgency of **climate change action**
 - mitigating **climate change**

The goal is -

- To bring **economic, environmental, social, health** benefits
- To facilitate **market uptake** and sustained **technologies deployment**
- **R&I policies** need to be coupled with **capacity building** and appropriate **financing solutions**
- Additional considerations of **affordability**, suitable **distribution channels** as well as meaningful **engagement of civil society**.

Existing innovative solutions and technologies need to be adapted and tailored to, and demonstrated in, the multi-faceted context of Africa.

SCOPE

Actions should demonstrate -



Innovative sustainable energy solutions that consider climate adaptation and climate mitigation in the African **social, economic** and **environmental** contexts.

The solutions may address:

- **renewable energy sources**
 - including solutions for off-grid communities
 - their integration into existing energy system
- **energy efficiency**

consider in particular -



- African **urbanised and rural** contexts
 - The **water-energy-food nexus**
 - Providing sustainable **energy access** (electricity/cooking)
 - Creating improved **health, economic wealth and jobs**
- **International cooperation** is encouraged

Actions should -



- **Design, construct, commission and operate the demonstration installation**
- **Tailored value chain approach**
 - local context, local material supply chain(s) and local workforce
- **Technical, vocational and educational needs of the workforce**
- **Propose relevant training and qualification activities**
- **Define a market strategy and business strategy**
- **Include a life cycle analysis**
- **Circular economy approach, where relevant**

Copernicus data and products -



may be used to support the **optimal location** of some infrastructures

- hydro energy
- wind energy
- solar energy
- coastal marine energy

may also support activities to evaluate the human and **environmental impact** of these new energy structures and the **loss of biodiversity** associated with them.

<https://www.copernicus.eu/en>

Actions should also -



participate in and contribute to the EU/AU Partnership on Climate Change and Sustainable Energy

in particular through **cooperation/collaboration with the project** to be funded under the [topic LC-SC3-JA-5-2020, “Long Term EU-Africa Partnership for Research and Innovation actions in the area of renewable energy”](#)

- Number of proposals submitted (including proposals transferred from or to other calls): 8
- Number of inadmissible proposals: 0
- Number of ineligible proposals: 3
- **Number of above-threshold proposals: 1**
- **Total budget requested by above-threshold proposals: 15.000.000.00 €**

EXPECTED IMPACT

Short-Term Expected Impacts

- **technologically reliable** and **economically viable** solutions
- proven positive **environmental, health, climate, social and economic** impacts of the renewable energy solutions
- **climate adaptation** and **climate mitigation** potential
- strengthening of the joint EU-AU Climate Change and Sustainable Energy Partnership efforts, with emphasis of improving the visibility of EU Science Diplomacy actions in Africa

Medium-Term Expected Impacts

- creation of new **market opportunities** for both European and African companies **on the African continent**
- **technological uptake** on the African continent
- acceleration of the achievements of the targets of the **Paris Agreement** for both continents, in line with **Europe's Green Deal ambition of climate neutrality**, and its external dimensions

Long-Term Expected Impacts

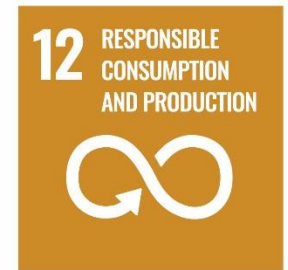
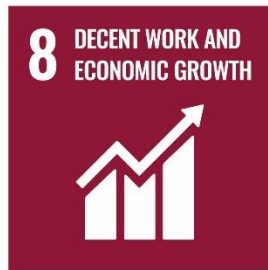
- **economic growth and job creation**, both in the EU and in African countries.

The proposed solutions are expected to evidence benefits to contribute to the **Sustainable Development Goals 2, 4, 5, 6, 7, 8, 11, 12 and 13**

SUSTAINABLE DEVELOPMENT GOALS



SUSTAINABLE DEVELOPMENT GOALS



**Read and reference
each word in the call text**



Background information and policy documents

- [Towards a comprehensive Strategy with Africa](#)
- https://ec.europa.eu/international-partnerships/priorities/eu-africa_en
- <https://ec.europa.eu/research/iscp/index.cfm?pg=africa>
- https://ec.europa.eu/commission/africaeuropealliance_en
- https://ec.europa.eu/info/research-and-innovation/strategy/european-green-deal/call_en



Funded Project Example

Africa-EU Innovation Alliance for Water and Climate

Objective

The main objective of AfriAlliance is for African and European stakeholders to work together in the areas of water innovation, research, policy, and capacity development to prepare Africa for future Climate Change challenges. There are many but fragmented initiatives and networks in place, therefore we will not create new but will consolidate existing networks of scientists, decision makers, practitioners, citizens and other key stakeholders into an effective, problem-focused knowledge sharing mechanism via an overall coordination platform: the Africa-EU Innovation Alliance for Water and Climate. We will support them in identifying appropriate social innovation and technological solutions for key water and climate change challenges.

We will take Africa-EU cooperation in this field to a practical level by sharing (non)technological innovation for local challenges, thus also identifying and boosting sustainable market and investment opportunities.

Demand-driven, problem-focused Action Groups will share knowledge between the identified stakeholders and networks at all scales to effectively identify and address vulnerabilities. We will make extensive use of existing/emerging communication channels and events (EU/African platforms, conferences, social media) to streamline Climate Change issues into water-related networks to raise awareness about their impacts and propose adaptation measures.

We will re-enforce and valorise Water and Climate Change research and (social) innovation (R&I) cooperation between Africa and Europe through a mix of forward-looking and bottom-up innovation and road mapping techniques. We will identify demands, opportunities, and constraints at different levels and develop strategic advice (short term demand-driven R&I outlook and long term R&I agenda) for improving Africa-EU collaboration. This will help policy makers to create a consistent approach to bilateral cooperation between Africa and the EU in the field of innovation for water and climate

Project Information

AfriAlliance

Grant agreement ID: 689162

[Project website](#)

Status

Ongoing project

Start date

1 March 2016

End date

28 February 2021

Funded under
H2020-EU.3.5.4.

Overall budget
€ 3 238 735

EU contribution
€ 3 238 735



Coordinated by
STICHTING IHE DELFT INSTITUTE FOR WATER
EDUCATION

 Netherlands
















[CORDIS page](#) | [AfriAlliance](#)

Africa-EU Innovation Alliance for Water and Climate

Participants (15)

Sort alphabetically ↕

Sort by EU Contribution ↕

	WATERNET TRUST Botswana	EU contribution € 178 585,29		ASSOCIATION AFRICAINE DE L'EAU (AAE) Côte d'Ivoire	EU contribution € 85 859,38
	WATER RESEARCH COMMISSION South Africa	EU contribution € 123 164,71		WEST AFRICAN SCIENCE SERVICES CENTRE ON CLIMATE CHANGE AND ADAPTED LAND USE Ghana	EU contribution € 86 000
	ICLEI - LOCAL GOVERNMENTS FOR SUSTAINABILITY - AFRICA South Africa	EU contribution € 117 925,71		STICHTING BOTH ENDS Netherlands	EU contribution € 70 968,75
	RESEAU INTERNATIONAL DES ORGANISMES DE BASSIN ASSOCIATION France	EU contribution € 161 225,78		STICHTING AKVO Netherlands	EU contribution € 288 450
	GLOBAL WATER PARTNERSHIP ORGANIZATION Sweden	EU contribution € 79 393,23		FONDATION 21E ASSOCIATION Burkina Faso	EU contribution € 108 722,66
	WATER, ENVIRONMENT AND BUSINESS FORDEVELOPMENT SL Spain	EU contribution € 519 702,50		COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH South Africa	EU contribution € 87 664,06
	OFFICE INTERNATIONAL DE L'EAU France	EU contribution € 291 390,63			
	UNIVERSITEIT TWENTE Netherlands	EU contribution € 248 507,04			
	WATER EUROPE Belgium	EU contribution € 90 266,93			

Africa-EU Innovation Alliance for Water and Climate



afrialliance

Needs & Solutions Hub

Finding Partners

1. Use your network
2. Use the National Contact Point
3. Register for our [Partner Search online form](#)
4. Take part in brokerage events
5. R&I online [event](#) – stay tuned
6. Identify the European leading groups in the field:
Search [previously funded projects](#) (CORDIS)
7. Funding and Tenders portal [Partner Search](#) page (only after publication)



ISERD Aid Fund

- Route 37a – Provides support to entities from the industry to participate in H2020 topics.
Eligible reimbursements of 75% of up to 40,000 NIS for –
Travel to a PS event, hosting potential partners in Israel, and the cost of a consultant to help write the proposal.



הודעה חשובה

שימו לב!

(1) יהיו שני מועדי הגשה בלבד
במחצית השנייה של 2020 -
31 באוגוסט, 2020
30 באוקטובר, 2020

(2) לאור מגבלות תקציב וכמות
הבקשות הגבוהה למסלול זה, דיון
בבקשות יתקיים במידה ויאושר תקציב
נוסף.

Red Team



“A red team is an independent group that challenges an organization to improve its effectiveness by assuming an adversarial role or point of view.”

- Wikipedia

The Red Team service is a national full proposal check -

- It is free of charge
- It uses expert reviewers of the Innovation Authority (some are also H2020 reviewers)
- All reviewers have signed NDA with the Innovation Authority
- The identity of the reviewer is classified
- The full proposal must be submitted **at least a month in advance** of the topic deadline by 10:00

Our Team

- **Area 1:** Increasing Climate Ambition: Talia Passiar – talia@iserd.org.il
- **Area 2:** Clean, affordable and secure energy; **Area 3:** Industry for a clean and circular economy (topic 2); **Area 7:** Ecosystems and Biodiversity: Sarit Kimchi - Sarit.Kimchi@iserd.org.il
- **Area 6:** Farm to Fork; **Area 8:** Zero-pollution, toxic free environment: Nir Shaked - Nir.s@iserd.org.il
- **Area 3:** Industry for a clean and circular economy (topic 1); **Area 4:** Energy and resource efficient buildings; **Area 5:** Sustainable and smart mobility; **Area 11:** International cooperation: Rachel Loutaty - rachel.l@iserd.org.il
- **Area 9:** Strengthening our knowledge in support of the EGD (topics 2 & 3): Tzlil Ribak - Tzlil.ribak@iserd.org.il
- **Area 9:** Strengthening our knowledge in support of the EGD (topic 1): Hagit Schwimmer - Hagit.Schwimmer@iserd.org.il
- **Area 10:** Empowering citizens for the transition towards a climate neutral, sustainable Europe: Smadar Hirsh - smadar@iserd.org.il

Green Deal general contact persons -

Hagit Schwimmer Hagit.Schwimmer@iserd.org.il & Nir Shaked Nir.s@iserd.org.il

Additional Green Deal Material

- ISERD Leaflet – discover the different topics and find the contact point for each
- Green Deal [website](#)
- Green Deal [Work Programme](#)





המינהלת הישראלית למו"פ האירופי
Israel-Europe R&I Directorate

THANK YOU

INNOVATION
BREAKS BOUNDARIES

www.iserd.org.il

רשות החדשנות
Israel Innovation
Authority


Ministry of Science
Technology & Space


השועה
לרשונה
גבורה
הועדה לתכנון ונתקצוב
COUNCIL FOR HIGHER EDUCATION
PLANNING & BUDGETING COMMITTEE